

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs                       | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---------------------------|------------------|---------|---------------------|
| S1    | 386  | "injection port" with cap   | US-PGPUB;<br>USPAT        | ADJ              | ON      | 2008/03/17<br>12:52 |
| S2    | 0    | "injection port".ti. with cap   | US-PGPUB;<br>USPAT        | ADJ              | ON      | 2008/03/17<br>12:59 |
| S3    | 3    | ((("5520661") or ("5961497") or ("20020193752")).PN.  | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2008/03/17<br>13:00 |
| S5    | 1    | ("5466219").PN.   | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2008/03/17<br>13:02 |
| S4    | 2    | S3 and septum   | US-PGPUB;<br>USPAT        | ADJ              | ON      | 2008/03/17<br>13:02 |
| S6    | 14   | "injection port" with cap with septum   | US-PGPUB;<br>USPAT        | ADJ              | ON      | 2008/03/17<br>13:04 |
| S7    | 362  | "injection port" with septum  | US-PGPUB;<br>USPAT        | ADJ              | ON      | 2008/03/17<br>13:05 |
| S8    | 11   | "injection port" with (septum with slit)  | US-PGPUB;<br>USPAT        | ADJ              | ON      | 2008/03/17<br>13:12 |
| S9    | 298  | ((("20010007641") or ("20010012930") or ("20010039403") or ("20010047154") or ("20010049503") or ("20010056266") or ("20020045892") or ("20020091378") or ("20020094305") or ("20020095121") or ("20020095138") or ("20020111645") or ("20020130100") or ("20020131904") or ("20020132367") or ("20020133124") or ("20020133136") or ("20020156469") or ("20020166394") or ("20020169489") or ("20020170556") or ("20020173769") or ("20030014095") or ("20030036742") or ("20030098430") or ("20030125721") or ("20030153865") or ("20030199835") or | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2008/06/05<br>08:36 |

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|     |   |  |                           |    |     |                     |
|-----|---|--|---------------------------|----|-----|---------------------|
|     |   | ("6511165") or<br>("6516953") or<br>("6551839") or<br>("6569125") or<br>("6579267") or<br>("6599273") or<br>("6602276") or<br>("6605076") or<br>("6607546") or<br>("6622882") or<br>("6626169") or<br>("6679103") or<br>("6689109") or<br>("6706022") or<br>("6729370") or<br>("6793892") or<br>("6802490") or<br>("6803022") or<br>("6874656") or<br>("6886421") or<br>("6905494") or<br>("6908226") or<br>("6921395") or<br>("6959615") or<br>("6962577") or<br>("6979323") or<br>("7001378") or<br>("7008051") or<br>("7041218") or<br>("7056316") or<br>("7063673") or<br>("7070589") or<br>("7087437") or<br>("7097632") or<br>("7104520") or<br>("7125396") or<br>("7127957") or<br>("7140592") or<br>("7153477") or<br>("7184825")).PN. or<br>(("7198611") or<br>("7214215") or<br>("7232428") or<br>("7264394") or<br>("7288089") or<br>("7291144") or<br>("7306199") or<br>("7331705")).PN. |                           |    |     |                     |
| S10 | 1 | ("6468251").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/05<br>08:50 |

|     |      |   |   |     |     |                     |
|-----|------|---|---|-----|-----|---------------------|
| S12 | 16   | ("3387609"   "4197848"  <br>"4289129"   "4378015"  <br>"4578063"   "4752292"  <br>"4776843"   "4874369"  <br>"4950260"   "4976925"  <br>"5135489"   "5199948"  <br>"5342316").PN. OR<br>("5961497").URPN. | US-PGPUB;<br>USPAT; USOCR                                   | ADJ | ON  | 2008/06/05<br>08:52 |
| S11 | 1    | ("5961497").PN.   | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/05<br>08:52 |
| S13 | 853  | 604/246.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>08:54 |
| S16 | 692  | 604/533.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>08:55 |
| S15 | 784  | 604/256.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>08:55 |
| S14 | 289  | 604/248.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>08:55 |
| S18 | 1469 | 604/523.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>08:56 |
| S17 | 236  | 604/537.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>08:56 |
| S21 | 249  | 251/149.5.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>09:00 |
| S20 | 208  | 251/149.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>09:00 |
| S23 | 199  | 604/88.ccls.  | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>09:02 |
| S22 | 185  | 604/86.ccls.  | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>09:02 |
| S24 | 265  | 604/201.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>09:03 |
| S25 | 26   | fluid same "circulating<br>plate"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/06/05<br>09:08 |
| S26 | 484  | 251/149.1.ccls.   | US-PGPUB;<br>USPAT  | ADJ | ON  | 2008/06/05<br>09:11 |
| S27 | 18   | ("3323774"   "4300250"  <br>"4428397"   "4544130"  <br>"4738665"   "4769012"  <br>"4802506").PN. OR<br>("5045068").URPN.  | US-PGPUB;<br>USPAT; USOCR                                   | ADJ | ON  | 2008/06/05<br>10:08 |
| S28 | 8    | valve same "circulating<br>plate"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/06/05<br>10:14 |

|     |       |  |                           |     |     |                     |
|-----|-------|--|---------------------------|-----|-----|---------------------|
| S30 | 87    | S29 and circulating  | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/06/05<br>10:15 |
| S29 | 5289  | S15 or S16 or S17 or S18<br>or S20 or S21 or S22 or<br>S23 or S24 or S13 or S26<br>or S14  | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/06/05<br>10:15 |
| S31 | 89730 | (valve or port) and<br>circulating   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/06/05<br>10:27 |
| S33 | 4823  | S31 and ("604".clas. or<br>"251".clas. or "137".clas.<br>or "222".clas.)   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/06/05<br>10:30 |
| S34 | 416   | 604/249.ccls.  | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/06/05<br>14:19 |
| S35 | 70    | ("4324239"   "4429856"  <br>"4842591"   "5163922"  <br>"5215538"   "5242393"  <br>"5242423"   "5353837"  <br>"5360413"   "5395348").<br>PN. OR ("5573516").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/06/05<br>14:47 |
| S36 | 1     | ("5193749").PN.  | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/06/05<br>15:18 |
| S37 | 1     | ("7322969").PN.  | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/06/05<br>15:20 |
| S38 | 1     | ("4263940").PN.  | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/06/05<br>15:29 |
| S40 | 1     | ("5355906").PN.  | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/06/05<br>16:03 |
| S41 | 1     | ("4274407").PN.  | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/06/05<br>16:09 |
| S42 | 1     | ("6699225").PN.  | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/06/05<br>16:35 |
| S44 | 784   | 604/256.ccls.  | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/06/05<br>16:37 |
| S43 | 749   | 604/93.01.ccls.  | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/06/05<br>16:37 |
| S45 | 16    | ("4981140"   "5135489"  <br>"5178607"   "5199948"  <br>"5203775"   "5279571"  <br>"5306265"   "5324256"  <br>"5417673"   "5531672"  <br>"5603706"   "5989216"  <br>"6213973"   "6468251").<br>PN. OR ("6699225").<br>URPN. | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/06/05<br>16:41 |
| S46 | 185   | 604/86.ccls.   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/06/05<br>16:54 |



|     |      |   |   |     |     |                     |
|-----|------|---|---|-----|-----|---------------------|
| S47 | 3726 | stagna\$4 with (port or valve)              | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/06/06<br>07:29 |
| S48 | 1    | wo-03086528-\$.did.                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/06/06<br>07:33 |
| S49 | 1    | ("5954691").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>07:39 |
| S50 | 14   | stagna\$4 with (port or valve) with turbine | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/06/06<br>07:42 |
| S51 | 44   | stagna\$4 with (port or valve) same turbine | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/06/06<br>07:43 |
| S52 | 3    | ((("3525357") or ("5624395")).PN.           | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>07:55 |
| S53 | 14   | ("3525357").URPN.                           | USPAT   | ADJ | ON  | 2008/06/06<br>08:07 |
| S55 | 1    | ("5961497").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>08:23 |
| S54 | 1    | ("5520661").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>08:23 |
| S56 | 1    | ("4197848").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>10:17 |
| S57 | 1    | ("6595964").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>10:37 |
| S58 | 1    | ("4601703").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>10:44 |
| S59 | 1    | ("3880401").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>11:17 |
| S60 | 1    | ("5817069").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>11:52 |
| S61 | 1    | ("4141379").PN.                             | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/06/06<br>11:55 |

|     |    |  |                    |     |    |                     |
|-----|----|--|--------------------|-----|----|---------------------|
| S62 | 70 | (US-20030153865-\$ or US-20070088293-\$ or US-20060155248-\$ or US-20060129109-\$ or US-20050165365-\$ or US-20080132877-\$ or US-20080097407-\$ or US-20070233046-\$ or US-20080086097-\$ or US-20050171510-\$).did. or (US-5961497-\$ or US-6045539-\$ or US-6158458-\$ or US-5954313-\$ or US-4815477-\$ or US-6569125-\$ or US-6261266-\$ or US-6193697-\$ or US-5899888-\$ or US-6217568-\$ or US-6468251-\$ or US-4197848-\$ or US-5199948-\$ or US-4141379-\$ or US-4143853-\$ or US-5222948-\$ or US-6595964-\$ or US-5449350-\$ or US-5453097-\$ or US-6171287-\$ or US-5817069-\$ or US-3880401-\$ or US-5045068-\$ or US-4769012-\$ or US-5554124-\$ or US-5234412-\$).did. or (US-4266614-\$ or US-4673393-\$ or US-4610665-\$ or US-6640805-\$ or US-5509433-\$ or US-7100890-\$ or US-5967490-\$ or US-5833213-\$ or US-4387879-\$ or US-7296782-\$ or US-5749861-\$ or US-5573516-\$ or US-6871838-\$ or US-5569235-\$ or US-4915687-\$ or US-5584808-\$ or US-5193749-\$ or US-4274407-\$ or US-6699225-\$ or US-7163114-\$ or US-6918500-\$ or US-5279571-\$ or US-5203775-\$ or US-5603706-\$ or US-6827709-\$ or US-4786281-\$ or US-4585435-\$).did. or (US-5501676-\$ or US-5653698-\$ or US-5242393-\$ or US-4601703-\$ or US-3525357-\$ or US-5624395-\$ or US-4426062-\$).did. | US-PGPUB;<br>USPAT | ADJ | ON | 2008/06/12<br>16:27 |
|-----|----|--|--------------------|-----|----|---------------------|

|     |       |   |                           |     |     |                     |
|-----|-------|---|---------------------------|-----|-----|---------------------|
| S63 | 41    | ("3682315"   "3900028"   "4187149"   "4219912"   "4289129"   "4307766").<br>PN. OR ("4601703").<br>URPN.  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/06/12<br>17:30 |
| S65 | 1     | ("3880401").PN.   | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/12/30<br>07:47 |
| S64 | 1     | ("4601703").PN.   | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/12/30<br>07:47 |
| S66 | 1     | ("4141379").PN.   | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/12/30<br>07:50 |
| S68 | 5238  | (valve or port) and ((swirl<br>or swirling or swirled) with<br>(fluid or liquid))   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>07:55 |
| S67 | 56794 | (valve or port) and<br>((circulating or circulate or<br>circulated or swirl or<br>swirling or swirled) with<br>(fluid or liquid))                                 | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>07:55 |
| S69 | 11    | ("20020193752"  <br>"20050171510"  <br>"3880401"   "4141379"  <br>"4197848"   "4601703"  <br>"5520661"   "5817069"  <br>"5961497"   "5957898"  <br>"6595964").PN. | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>07:59 |
| S70 | 259   | (valve or port) and ((swirl<br>or swirling or swirled) with<br>(fluid or liquid)) and<br>(stagnate or stagnating or<br>stagnation or stagnated)                   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>08:04 |
| S71 | 21706 | (valve or port) same<br>((circulating or circulate or<br>circulated or swirl or<br>swirling or swirled) with<br>(fluid or liquid))                                | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>08:05 |
| S72 | 490   | S71 and (stagnate or<br>stagnating or stagnation<br>or stagnated)   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>08:06 |
| S73 | 13    | ("3413995"   "3515158"  <br>"3563260"   "3592213").<br>PN. OR ("3712321").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/30<br>08:16 |
| S74 | 83    | 137/808.ccls.   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>08:18 |
| S75 | 87    | 137/812.ccls.   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>08:19 |
| S78 | 81    | S75 not S74   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>08:44 |

|     |     |   |                           |     |     |                     |
|-----|-----|---|---------------------------|-----|-----|---------------------|
| S79 | 275 | S71 and septum  | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>08:58 |
| S81 | 298 | (("20010007641") or<br>("20010012930") or<br>("20010039403") or<br>("20010047154") or<br>("20010049503") or<br>("20010056266") or<br>("20020045892") or<br>("20020091378") or<br>("20020094305") or<br>("20020095121") or<br>("20020095138") or<br>("20020111645") or<br>("20020130100") or<br>("20020131904") or<br>("20020132367") or<br>("20020133124") or<br>("20020133136") or<br>("20020156469") or<br>("20020166394") or<br>("20020169489") or<br>("20020170556") or<br>("20020173769") or<br>("20030014095") or<br>("20030036742") or<br>("20030098430") or<br>("20030125721") or<br>("3841160") or<br>("3877310") or<br>("4012325") or<br>("4084718") or<br>("4274285") or<br>("4413534") or<br>("4455504") or<br>("4485268") or<br>("4511355") or<br>("4546659") or<br>("4559043") or<br>("4569675") or<br>("4592745") or<br>("4620170") or<br>("4621534") or<br>("4755173") or<br>("4760847") or<br>("4762981") or<br>("4769008") or<br>("4772273") or<br>("4775635") or<br>("4776841") or<br>("4778448") or<br>("4780213") or<br>("4790829") or<br>("4802885") or<br>("4806313") or<br>("4810389") or | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/12/30<br>09:04 |

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|     |    | ("7070589") or<br>("7087437") or<br>("7097632") or<br>("7104520") or<br>("7125396") or<br>("7127957") or<br>("7140592") or<br>("7153477") or<br>("7184825") or<br>("7198611") or<br>("7214215") or<br>("7232428") or<br>("7264394") or<br>("7288089") or<br>("7291144")).PN. or<br>(("7306199") or<br>("7331705") or<br>("7367968") or<br>("7387216") or<br>("7449018") or<br>("7468164") or<br>("7470257")).PN.  |                           |     |    |                     |
| S82 | 96 | ("2106638"   "3192949"  <br>"3326521"   "3799132"  <br>"3799171"   "3806086"  <br>"3831629"   "4103686"  <br>"4128098"   "4349021"  <br>"4375825"   "4559043"  <br>"4617015"   "4681132"  <br>"4683916"   "4723550"  <br>"4776369"   "4781674"  <br>"4908018"   "4915687"  <br>"4934655"   "5024657"  <br>"5060812"   "5085645"  <br>"5104093"   "5108380"  <br>"5116021"   "5149054"  <br>"5163922"   "5181913"  <br>"5181921"   "5195967"  <br>"5199947"   "5201725"  <br>"5203775"   "5215538"  <br>"5217434"   "5230706"  <br>"5242393"   "5242423"  <br>"5242432"   "5250028"  <br>"5250034"   "5251873"  <br>"5259839"   "5269771"  <br>"5280876"   "5284475"  <br>"5289849"   "5290263"  <br>"5300033"   "5300044"  <br>"5308334"   "5322518"  <br>"5330435"   "5334170"  <br>"5336174"   "5336192"  <br>"5338313"   "5353837"  <br>"5356375"   "5360413"  <br>"5364371"   "5370624"  <br>"5390898"   "5391150"  <br>"5395348"   "5399171" | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/30<br>09:09 |

|     |      |   |                           |     |     |                     |
|-----|------|---|---------------------------|-----|-----|---------------------|
|     |      | "5401255"   "5405323"  <br>"5425465"   "5429256"  <br>"5433330"   "5464938"  <br>"5470319"   "5533983"  <br>"5535771"   "5535785"  <br>"5573525"   "5578059"  <br>"5618268"   "5645538"  <br>"5685866"   "5782816"  <br>"5788215"   "5833213").<br>PN. OR ("6158458").<br>URPN. |                           |     |     |                     |
| S83 | 34   | ("2646059"   "3037522"  <br>"3085591"   "3403696"  <br>"3648728"   "3768508"  <br>"4550749"   "4560375"  <br>"4609006"   "4636194"  <br>"4675003").PN. OR<br>("4781674").URPN.  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/30<br>09:23 |
| S84 | 5567 | (valve or port) and plate<br>and septum   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>09:38 |
| S86 | 180  | (valve or port) same plate<br>same septum same (fluid<br>or liquid)   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>09:39 |
| S85 | 404  | (valve or port) same plate<br>same septum   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>09:39 |
| S87 | 1    | ("6468251").PN.   | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/12/30<br>10:14 |
| S88 | 740  | 604/905.ccls.   | US-PGPUB;<br>USPAT        | ADJ | ON  | 2008/12/30<br>10:16 |
| S97 | 1    | ("5961497").PN.   | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/12/30<br>10:59 |
| S98 | 1    | ("4197848").PN.   | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/12/30<br>12:35 |
| S99 | 2    | ((("5961497") or<br>("5775671")).PN.  | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2010/05/04<br>09:09 |

**EAST Search History (Interference)**

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